

Product datasheet for TR312013

OriGene Technologies, Inc.

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KCNIP4 Human shRNA Plasmid Kit (Locus ID 80333)

Product data:

Product Type: shRNA Plasmids

Product Name: KCNIP4 Human shRNA Plasmid Kit (Locus ID 80333)

Locus ID: 80333

CALP; KCHIP4 Synonyms:

Vector: pRS (TR20003)

E. coli Selection: Ampicillin Mammalian Cell

Selection:

Puromycin

Format: Retroviral plasmids

KCNIP4 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = Components:

80333). 5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.

NM 001035003, NM 001035004, NM 025221, NM 147181, NM 147182, NM 147183, RefSeq:

> NM 001035004.1, NM 025221.1, NM 025221.2, NM 025221.3, NM 025221.4, NM 025221.5, NM 147181.1, NM 147181.2, NM 147181.3, NM 147183.1, NM 147183.2, NM 147183.3, NM 001035003.1, NM 147182.1, NM 147182.2, NM 147182.3, BC032520, NM 001363504,

NM 025221.6

UniProt ID: Q6PIL6

Summary: This gene encodes a member of the family of voltage-gated potassium (Kv) channel-

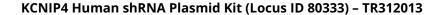
interacting proteins (KCNIPs), which belong to the recoverin branch of the EF-hand

superfamily. Members of the KCNIP family are small calcium binding proteins. They all have EF-hand-like domains, and differ from each other in the N-terminus. They are integral subunit components of native Kv4 channel complexes. They may regulate A-type currents, and hence neuronal excitability, in response to changes in intracellular calcium. This protein member also interacts with presenilin. Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]

These shRNA constructs were designed against multiple splice variants at this gene locus. To shRNA Design:

> be certain that your variant of interest is targeted, please contact <u>techsupport@origene.com</u>. If you need a special design or shRNA sequence, please utilize our custom shRNA service.







Performance Guaranteed:

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).